Product data sheet

Specifications

Green Premium™

servo motor BMH, Lexium 32, 84Nm, 3800rpm, keyed shaft, with brake, IP54, 128bit encoder, straight

BMH2053P11F1A

Discontinued

Discontinued on: Jun 30, 2023

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Product Or Component Type	Servo motor
Device Short Name	BMH
Maximum Mechanical Speed	3800 rpm
Continuous Stall Torque	743.46 lbf.in (84 N.m) LXM32.D72N4 24 A, 400 V, three phase 743.46 lbf.in (84 N.m) LXM32.D72N4 24 A, 480 V, three phase
Peak Stall Torque	2053.37 lbf.in (232 N.m) LXM32.D72N4 24 A, 400 V, three phase 2053.37 lbf.in (232 N.m) LXM32.D72N4 24 A, 480 V, three phase
Nominal Output Power	6500 W LXM32.D72N4 24 A, 400 V, three phase 6500 W LXM32.D72N4 24 A, 480 V, three phase
Nominal Torque	462.01 lbf.in (52.2 N.m) LXM32.D72N4 24 A, 400 V, three phase 462.01 lbf.in (52.2 N.m) LXM32.D72N4 24 A, 480 V, three phase
Nominal Speed	1200 rpm LXM32.D72N4 24 A, 400 V, three phase 1200 rpm LXM32.D72N4 24 A, 480 V, three phase
Product Compatibility	LXM32.D72N4 400...480 V three phase
Shaft End	Keyed
Ip Degree Of Protection	IP54 standard
Speed Feedback Resolution	131072 points/turn
Holding Brake	With
Mounting Support	International standard flange
Electrical Connection	Straight connectors

Complementary

Range Compatibility	Lexium 32
[Us] Rated Supply Voltage	480 V
Phase	Three phase
Continuous Stall Current	25.2 A
Continuous Power	9.6 W
Maximum Current Irms	72 A LXM32.D72N4
Maximum Permanent Current	107.4 A
Second Shaft	Without second shaft end
Shaft Diameter	1.50 in (38 mm)

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Shaft Length	3.15 in (80 mm)
Key Width	2.76 in (70 mm)
Feedback Type	Single turn SinCos Hiperface
Holding Torque	708.06 lbf.in (80 N.m) holding brake
Motor Flange Size	8.07 in (205 mm)
Number Of Motor Stacks	3
Torque Constant	3.5 N.m/A 248 °F (120 °C)
Back Emf Constant	218 V/krpm 248 °F (120 °C)
Number Of Motor Poles	10
Rotor Inertia	206 kg.cm²
Stator Resistance	0.32 Ohm 68 °F (20 °C)
Stator Inductance	6.9 mH 68 °F (20 °C)
Stator Electrical Time Constant	21.6 ms 68 °F (20 °C)
Maximum Radial Force Fr	4500 N 1000 rpm 3570 N 2000 rpm 3120 N 3000 rpm
Maximum Axial Force Fa	0.2 x Fr
Brake Pull-In Power	40 W
Type Of Cooling	Natural convection
Length	21.20 in (538.5 mm)
Centring Collar Diameter	7.09 in (180 mm)
Centring Collar Depth	0.16 in (4 mm)
Number Of Mounting Holes	4
Mounting Holes Diameter	0.55 in (14 mm)
Circle Diameter Of The Mounting Holes	8.46 in (215 mm)
Net Weight	158.51 lb(US) (71.9 kg)

Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
Gtin	3606485201979
Returnability	No
Country Of Origin	DE

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	14.17 in (36.0 cm)
Package 1 Width	12.20 in (31.0 cm)
Package 1 Length	28.74 in (73.0 cm)
Package 1 Weight	165.35 lb(US) (75.0 kg)

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

Well-being performance

Mercury Free	
Rohs Exemption Information	Yes
Pvc Free	

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	No need of specific recycling operations
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov